

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of )  
Rainer HÖCKER et al. ) Group Art Unit: 3743  
Continuation of ) Examiner: L. Leo  
Application No.: 09/156,760 )  
Filed: December 5, 2001 )  
For: WALL PART ACTED UPON BY AN )  
IMPINGEMENT FLOW )



*M. Kewen*  
#5  
5/30/4003

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

U.S. Patent No. 3,414,753;  
U.S. Patent No. 4,269,032;  
U.S. Patent No. 5,321,951;  
U.S. Patent No. 5,363,654;  
U.S. Patent No. 5,586,866;  
U.S. Patent No. 5,598,697;  
U.S. Patent No. 5,737,922;  
Japanese Patent No. 309,732;  
U.K. 849,255;  
EP 698 725;  
EP 694 739;  
DE 4 430 303

"A review of heat transfer data for single circular jet impingement", Jambunathan, et al., Int. J. Heat and Fluid Flow, Vol. 13, No. 2, 6/1992, pp. 106-115.

"Evaluation of Internal Heat Transfer Coefficients for Impingement Cooled Turbine Airfoils", Chupp, et al., AIAA 4<sup>th</sup> Propulsion Joint Specialist Conference, 6/1968.

"Gas Turbine Blade Heat Transfer Augmentation by Impingement of Air Jets Having Various Configurations", Tabakoff, et al., Journal of Engineering for Power, 1/1972, pp. 51-60.

"Heat-Transfer Characteristics of a Single Circular Air Jet Impinging on a Concave Hemispherical Shell", Livingood, et al., NASA Publication TM X-2859, 8/1973.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

Copies of the listed documents were previously submitted in prior U.S. Application Serial No. 09/156,760, filed September 18, 1998, upon which is relied for the benefits provided in 35 U.S.C. § 120. In accordance with 37 C.F.R. § 1.98(d), copies of the listed documents are not included.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

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